## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Herget et al.

Serial No.:

10/723,719

Filed:

November 26, 2003

Entitled:

THERAPEUTIC TARGETS FOR

THE TREATMENT OF HCV INFECTIONS, METHOD OF

TREATING HCV INFECTIONS AND COMPOUNDS USEFUL THEREFOR

Attorney Docket No.: AXM-009.3 US

Mail Stop AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

## TRANSMITTAL LETTER

Sir:

Transmitted herewith are: [X] an Information Disclosure Statement (IDS) under 37 CFR §§ 1.56, 1.97 and 1.98 (3 pages); [X] a modified form PTO-1449 Information Disclosure Statement (2 pages); [X] photocopies of the cited documents, to be filed in the above-identified patent application; and [X] a return receipt post card.

## **PAYMENT OF FEES**

- [X] A check in the amount of \$\frac{180.00}{180.00}\$ (check no. 7025) in payment of the fee for submission of an information disclosure statement transmitted herewith.
- [X] The Commissioner is hereby authorized to charge payment of any additional fees required under 37 CFR §§ 1.16 or 1.17 in connection with the paper(s) transmitted herewith, or to credit any overpayment of same, to Deposit Account No. 50-0268. A duplicate copy of this transmittal letter is transmitted herewith.

Respectfully submitted,

Leon R. Yankwich, Reg. No. 30,237 Michael R. Wesolowski, Reg. No. 50,944

Art Unit: 1648

Examiner: Bao Qun Li

Attorneys for Applicants

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## **CERTIFICATE OF MAILING**

The undersigned hereby certifies that this correspondence and additional documents are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

July 25, 2006

date

Nasim G. Memon

# 2 1 1006 E IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98

Dear Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants submit this Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A modified form PTO-1449 listing the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents. This Statement is being submitted after the mailing of a first Office Action, but before the mailing of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in the application, pursuant to 37 C.F.R. § 1.97(c). A check including the amount of \$180.00 in payment of the fees under 37 C.F.R. §1.17 (p) is enclosed herewith.

## **US Patent Documents**

U.S. 6,033,860 issued March 7, 2000, Lockhart et al.;

U.S. 6,040,140 issued March 21, 2000, Croce et al.;

U.S. 6,274,747 B1 issued August 14, 2001, Strelchenok;

U.S. 6,326,397 B1 issued December 4, 2001, Bollag et al.; and

U.S. 6,403,554 B2 issued June 11, 2002, Strelchenok.

180.00 OP

## **Foreign Patent Documents**

WO 99/67362 A1 published December 29, 1999, Rumin et al.

## **Other Publications**

Bartenschlager et al., Journal of General Virology, 81:1631-1648 (2000);

Brigelius-Flohé, Free Radical Biology and Medicine, 27:951-965 (1999);

Chartier et al., Journal of Virology., 70:4805-4810 (1996);

Chu et al., Journal of Nutrition, 129:1846-1854 (1999);

Cohen, J., Science, 285:26-30 (1999);

Esworthy et al., Biochimica et Biophysica Acta, 1381:213-226 (1998);

Glotzer et al., Journal of Virology, 75:2421-2434 (2001);

Glotzer et al., *Nature*, 407:207-211 (2000);

Graham et al., J. gen. Virol., 36:59-74 (1977);

Guha et al., Lab Animal, 34:39-47 (2005);

Heathcote et al., New England Journal of Medicine, 343:1673-1680 (2000);

Herget et al., Journal of Neurochemistry, 70:47-58 (1998);

Holben et al., Journal of the American Dietetic Association, 99:836-843 (1999);

Hoofnagle et al., New England Journal of Medicine, 336:347-356 (1997);

Houghton, Michael, Fields Virology Third Edition, Fields et al., eds (Lippencott-Raven Pub.,

Philadelphia), Chapter 32, pages 1035-1058 (1996);

Houglum et al., Gastroenterology, 113:1069-1073 (1997);

Lemay et al., *Virology*, 101:131-143 (1980);

Lohmann et al., Science, 285:110-113 (1999);

Look et al., *Antiviral Research*, 43:113-122 (1999);

Michou et al., Journal of Virology, 73:1399-1410 (1999);

Neri et al., Panminerva Medica, 42:187-192 (2000);

Rosen et al., Molecular Medicine Today, 5:393-399 (1999);

Russell, Journal of General Virology, 81:2573-2604 (2000);

Schiedermaier et al., Hepatology, 32:4, Pt 2 of 2. Abstract 1437 (2000)

Schinazi et al., Antiviral Chemistry & Chemotherapy, 10:99-114 (1999);

Taylor et al., Archives of Biochemistry and Biophysics, 305:600-605 (1993);

Wingler et al., European Journal of Biochemistry, 259:149-157 (1999);

Wong et al., American Journal of Public Health, 90:1562-1569 (2000);

Zeuzem et al., New England Journal of Medicine, 343:1666-1672 (2000); and

Zhang et al., Medizinische Klinik, 94:2-6 (1999).

Applicants do not intend to represent that any of the documents submitted herein is material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicants respectfully request that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,

Leon R. Yankwich, Reg. No. 30,237

Michael R. Wesolowski, Reg. No. 50,944

Attorneys for Applicants

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## **CERTIFICATE OF MAILING**

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July 25, 2006

Date

Nasim G. Memon

Modified FORM PTO-1449	ATTY, DOCKET NO.	SERIAL NO.
Modified 1 St. Miles 1 St. Mil	AXM-009.3 US	10/723,719
LIST OF PATENTS AND PUBLICATIONS APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT Herget et al.	
(Use several sheets if necessary)	FILING DATE November 26, 2003	ART UNIT 1648

REFERENCE DESIGNATION 5.0. FATERE DOCUMENT	REFERENCE DESIGNATION	U.S.	<b>PATENT</b>	<b>DOCUMENTS</b>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	US 6,033,860	03/07/00	Lockhart et al.			
	AB	US 6,040,140	03/21/00	Croce et al.			
	AC	US 6,274,747 B1	08/14/01	Strelchenok			
	AD	US 6,326,397 B1	12/04/01	Bollag et al.			
	AE	US 6,403,554 B2	06/11/01	Strelchenok			
	AF						
	AG	(mag)	4				

## FOREIGN PATENT DOCUMENTS

Г								TRANSL	ATION
			DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	YES	NO
		BA	WO 99/67362 A1	12/29/99	Rumin et al.				
	•	BB							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA	Bartenschlager et al., Journal of General Virology, 81:1631-1648 (2000)		
	СВ	Brigelius-Flohé, Free Radical Biology and Medicine, 27:951-965 (1999)		
	СС	Chartier et al., Journal of Virology, 70:4805-4810 (1996)		
	CD Chu et al., Journal of Nutrition, 129:1846-1854 (1999)			
	CE	Cohen, Science, 285:26-30 (1999)		
	CF	Esworthy et al., Biochimica et Biophysica Acta, 1381:213-226 (1998)		
	CG	Glotzer et al., Journal of Virology, 75:2421-2434 (2001)		
	СН	Glotzer et al., Nature, 407:207-211 (2000)		
	CI	Graham et al., J. gen. Virol., 36:59-74 (1977)		
	CJ	Guha et al., Lab Animal, 34:39-47 (2005)		
	СК	Heathcote et al., New England Journal of Medicine, 343:1673-1680 (2000)		
	CL	Herget et al., Journal of Neurochemistry, 70:47-58 (1998)		
	CM	Holben et al., Journal of the American Dietetic Association, 99:836-843 (1999)		
	CN	Hoofnagle et al., New England Journal of Medicine, 336:347-356 (1997)		
·	со	Houghton, Michael, Fields Virology Third Edition, Fields et al., eds (Lippencott-Raven Pub., Philadelphia), Chapter 32, pages 1035-1058 (1996)		

	СР	Houglum et al., Gastroenterology, 1	13:1069-1073 (1997)			
	CQ	Lemay et al., Virology, 101:131-143	(1980)			
	CR	Lohmann et al., Science, 285:110-113 (1999)  Look et al., Antiviral Research, 43: 113-122 (1999)				
	CS					
	СТ	Michou et al., Journal of Virology, 7	73:1399-1410 (1999)			
	CU	Neri et al., Panminerva Medica, 42:	Neri et al., Panminerva Medica, 42:187-192 (2000)			
	CV	Rosen et al., Molecular Medicine To	day, 5:393-399 (1999)			
	CW	Russell, Journal of General Virology	y, 81:2573-2604 (2000)			
	СХ	Schinazi et al., Antiviral Chemistry & Chemotherapy, 10:99-114 (1999)  Taylor et al., Archives of Biochemistry and Biophysics, 305:600-605 (1993)				
	CY					
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	DA					
	Wong et al., American Journal of Public Health, 90:1562-1569 (2000)					
	DC	Zeuzem et al., New England Journal of Medicine, 343:1666-1672 (2000)				
	DD	Zhang et al., Medizinische Klinik, 94:2-6 (1999)				
	DE					
	DF					
EXAMINE	R		DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

sheet \_1\_ of \_\_1\_